## **Assessment: Course Four Column**



## Courses (MATH) - Math

## MATH 126E:Precalculus I Expanded

Course Outcomes	Assessment Measures	Results	Actions
Equations and inequalities - Solve a	<b>Exam -</b> Final Exam	Reporting Period: 2015-2016	Action: None of these success rates
variety of equations and inequalities	#10	Criterion Met: N/A	are where I would like them to be.
including linear, quadratic,	#11	#10 41% successful	One change I will make is to have a
polynomial, rational, absolute value,	#12	#11 21% successful	weekly topic in WebCampus in which
logarithmic, and exponential	#13	#12 69% successful	I will try to point out common
Course Outcome Status: Active	#14	#13 69% successful	mistakes and try to fit the current
Next Assessment: 2020-2021	#15	#14 63% successful	topic more clearly into the overall
Start Date: 06/20/2016	#27	#15 72% successful	structure of the course. This is in
	#28	#27 41% successful	addition to the lectures that I record
	Criterion: For all outcomes, success	#28 10% successful (09/19/2016)	for each section. These changes
	is students earning full credit on		apply to all of the outcomes for the
	problems.		course. (09/19/2016)
Graph a variety of functions - Graph	Exam - Final Exam	Reporting Period: 2015-2016	
a variety of functions including linear,		Criterion Met: N/A	
quadratic, polynomial, absolute value,	#16	#1 66% successful	
rational, greatest integer,	#17	#16 86% successful	
exponential, logarithmic and	#18	#17 34% successful	
piecewise-defined functions by	#19	#18 69% successful	
finding domain, range, zeros,	#24	#19 66% successful	
intercepts, asymptotes, and	#25	#24 34% successful	
describing symmetries	#26	#25 45% successful	
Course Outcome Status: Active	Criterion: Success is students	#26 52% successful (06/20/2016)	
Next Assessment: 2020-2021	earning full credit on problems.		
Start Date: 06/20/2016			
Solve systems of equations with two	<b>Fxam -</b> Final Exam	Reporting Period: 2015-2016	

Solve systems of equations with two or three variables - Solve systems of #2

**Reporting Period:** 2015-2016 **Criterion Met:** N/A

Course Outcomes	Assessment Measures	Results	Actions
equations with two or three variables using substitution, addition, Cramer's Rule, Gaussian elimination, or the inverse of a matrix. (Gaussian elimination and matrix inversion optional) <b>Course Outcome Status:</b> Active <b>Next Assessment:</b> 2020-2021 <b>Start Date:</b> 06/20/2016	#3 #4 #5 #6 #7 #8 <b>Criterion:</b> For all outcomes, success is students earning full credit on problems.	#2 72% successful #3 79% successful #4 45% successful #5 38% successful #6 52% successful #7 31% successful #8 31% successful (06/20/2016)	
Operations on complex numbers and matrices - Perform operations on complex numbers and matrices (Matrix inversion is optional.) Course Outcome Status: Active Next Assessment: 2020-2021 Start Date: 06/20/2016	Exam - Final Exam #9 Criterion: Success is students earning full credit on problems.	Reporting Period: 2015-2016 Criterion Met: N/A #9 72% successful (06/20/2016)	
Variety of real-world problems - Solve a variety of real-world problems involving quadratics, linear systems of equations, exponential and logarithmic functions Course Outcome Status: Active Next Assessment: 2020-2021 Start Date: 06/20/2016		Reporting Period: 2015-2016 Criterion Met: N/A #29 45% successful #30 66% successful #31 31% successful (06/20/2016)	
Operations on functions - Perform operations on functions, find the domain and range of a function as well as the inverse and difference quotient Course Outcome Status: Active Next Assessment: 2020-2021 Start Date: 06/20/2016	Exam - Final Exam #20 #23 Criterion: Success is students earning full credit on problems.	Reporting Period: 2015-2016 Criterion Met: N/A #20 28% successful #23 17% successful (06/20/2016)	
Factor polynomials - Use synthetic division, the Division algorithm, Remainder Theorem, and Factor Theorem to factor polynomials Course Outcome Status: Active Next Assessment: 2020-2021	Exam - Final Exam #21 #22 Criterion: Success is students earning full credit on problems.	Reporting Period: 2015-2016 Criterion Met: N/A #21 24% successful #22 52% successful (06/20/2016)	<b>Action:</b> In this class I noticed a disturbing trend. The overall avera of the exams dropped with each successive exam. The chapter 1 exam was high at 86.65%. All the exams remained above 70% until t

Course Outcomes	Assessment Measures	Results	Actions
Start Date: 06/20/2016			final. The average for the final wa 59.41%. As far as changes, I think will test the graphing separately. Students seemed unable to graph yet in other versions of this class (126, 128) students seem to do th best at graphing. This is the first t I have taught this specific Math 9t and Math 126 combination; however, I am very familiar with t material from years of teaching either the traditional Math 126 or Math 128, the combined precalcu and trigonometry course. Frankly of this is discouraging. This cours was online. When I do the online version again, I will try to have mo frequent informal spot checks. Th problem with online courses is th can be difficult for students to gel campus, so I try not to ask studen to have proctored exams more th 5 or 6 times throughout the semester. In order not to increase the burden of coming to campus, will have to keep the more inform assessments non-proctored. (06/20/2016)